```
//Odd or Even
echo "Enter Number: "
read num
if [ $((num%2)) -eq 0 ]
then
       echo "Even number"
else
       echo "Odd number"
fi



//Greatest of Three numbers
echo "Enter three values: "
read a
read b
read c
if [ $a -gt $b ] && [ $a -gt $c ]
then
       greatest=$a
elif [ $b -gt $a ] && [ $b -gt $c ]
then
       greatest=$b
else
       greatest=$c
fi
echo "$greatest is greatest"



//Factorial of Number
echo "Enter a number"
read num
fact=1
while [ $num -gt 1 ]
do
       fact=$((fact * num))       # fact = fact * num
       num=$((num - 1))           # num = num - 1
done
echo $fact



//Fibonacci Series
echo "Enter limit for Fibonacci Series: "
read limit
n1=0
n2=1
echo "Fibonacci series:"
echo $n1
i=2
while [ $i -le $limit ]
do
       f=$((n1+n2))
       n1=$n2
       n2=$f
       echo $f
       i=$((i+1))
done
```

```
//Calculator
echo "Enter 2 nos:"
read n1
read n2
echo "Select choice"
echo "1. Addition"
echo "2. Subtraction"
echo "3. Multiplication"
echo "4. Division"
read choice
case $choice in
  1)
    echo "Addition"
    result=$((n1 + n2))
    ;;
  2)
    echo "Subtraction"
    result=$((n1 - n2))
    ;;
  3)
    echo "Multiplication"
    result=$((n1 * n2))
    ;;
  4)
    echo "Division"
    result=$((n1 / n2))
    ;;
  *)
    echo "Error"
    result="Invalid choice"
    ;;
esac
echo $result



//Prime number upto a limit
echo "enter a number upto which you want the prime numbers"
read num
count=0
for (( n=2; n<=$num; n++ ))
do
t=1
if [ $n -lt 2 ]
then echo "Please give other  numbers than 0 and 1"
else
for (( i=2; i<$n; i++ ))
do
        if (($n%i==0))
        then
        t=0
        break;
        fi
done
        if [ $t == 1 ]
        then
        echo $n
        count=$((count+1))
        fi
fi
done
#echo "Total prime numbers upto $num are $count "
```